Date _6 august 1981_   NTIS Control # _____

TO: Defense Technical Information
        Center - DTIC
     Cameron Station
     Alexandria, Virginia 22314

FROM: NTIS, Input Branch
        5285 Port Royal Road
        Springfield, Virginia 22161

Report # _DOD-DF-81-009_   ADA # __ADA102565__

Title: _Total Structure Verifier System._

Subject report is /_/ Standard Process   /_/ STG report.   STG - Special
Technology Group.   /X/ Computer Product   /_/ Follow up date _____

/_/ The report will be accessioned by DDC. The form noting the ADA number
    is returned.

/_/ The report has been assigned the ADA number noted above and is returned
    to NTIS for processing.

/_/ DDC will not process the report. It is returned to NTIS

Mag Tape Price _360.00_
PC & MF Price _____   Source ___DODA___ _field 3_

Stock Quantity _____   Source Share _____

Comments:
field 4 - CP - T05
field 8 - K.8022
field 18,19 - DOD-DF-81-009

                           Dottie Adams
                         Signature (for billing)

Copy when completed to
Finance Branch

DOD Report Action Request
(Replaces NTIS-164 5-72)

818 07 074

AD A102565

FEDERAL INFORMATION PROCESSING STANDARD SOFTWARE SUMMARY

01. Summary date			02. Summary prepared by (Name and Phone)	03. Summary action		
Yr.	Mo.	Day	Maj. B. J. Dugan (703)437-2538	New	Replacement	Deletion
8	0	4	4			

05. Software title: Total Structure Verifier System (TSVS)

03. Summary action: New [X] Replacement [ ] Deletion [ ]

Previous Internal Software ID

04. Software date		
Yr.	Mo.	Day
8	0	3	1

07. Internal Software ID

06. Short title

08. Software type	09. Processing mode	10. General Application area		Specific
Automated Data System [ ] Computer Program [X] Subroutine/Module [ ]	Interactive [ ] Batch [X] Combination [ ]	Computer Systems Support/Utility [X] Scientific/Engineering [ ] Bibliographic/Textual [ ]	Management/Business [ ] Process Control [ ] Other [ ]	Total DBMS Utility

11. Submitting organization and address

Defense Communications Engineering Center
1860 Wiehle Avenue
Reston, VA 22090

12. Technical contact(s) and phone

Maj. B. J. Dugan
(703)437-2538
AUTOVON 364-2538

13. Narrative

The Total Structure Verifier System (TSVS) is a utility which checks TOTAL file internal system fields. TOTAL files have pointer fields matching records within and between files. It is the purpose of the TSVS to check mode with a minimum of user preparation. The TSVS is designed to run in batch mode with a minimum of user preparation. The TSVS will report errors it finds by printing each record in error with a description of the error. The TSVS can find only those errors which are in conflict with the TOTAL file linkage rules. Thus, for example, the TSVS can find an error when a free space record points to an active record, but it cannot find an error when a data field has an incorrect value. In general, the TSVS will find errors of structure, when the TOTAL nucleus routines, while processing through application programs, improperly access records. The TSVS validates the integrity of the individual files without using the data base management system itself. The User's Manual is contained in the first file of the magnetic tape.

14. Keywords

TOTAL; DATA BASE; DBMS

15. Computer manuf'r and model	16. Computer operating system	17. Programing language(s)	18. Number of source program statements
NASC AS/5-3	SVS,MVS	PL/1, ALC	1500

19. Computer memory requirements	20. Tape drives	21. Disk/Drum units	22. Terminals
100K	0	1	0

23. Other operational requirements

Total 6.3 or Total 8.0 Data Bases

24. Software availability			25. Documentation availability		
Available [X]	Limited [ ]	In-house only [ ]	Available [X] on tape	Inadequate [ ]	In-house only [ ]

DOD-DF-009
DOT/DF-81/005
$360.00 T05 NAC
Software Statement #1

AUG 7 1981

26. FOR SUBMITTING ORGANIZATION USE

DTIC FILE COPY

61 1511

Standard Form 185

COMPUTER MAGNETIC TAPE FILE PROPERTIES

01. Completion Date			02. Form Prepared By *(Name and Phone)*	03. Reel ID Number *(Property Control No.)*
Year	**Month**	**Day**	MARK F. AMELL (703) 437-2552	U90461
8 1	0 6	2 3		

04. Recording Date			05. File Identifier or Descriptive Title	06. Short Title *(External Label Name)*
Year	**Month**	**Day**	R832.TSVS.USER	R832.TSVS.USER
8 1	0 6	2 3		

07. Source Unavailable			08. Documentation	09. File Position on Reel
Year	**Month**	**Day**	**Yes** **No** Available	1 of 9
			X (Enter Citation) FIRST FILE ON TAPE	

10. To Be Returned	11. Submitting Organization & Address	12. Receiving Organization & Address
Yes **No** — To Other Than The Sender X	OCEC / R832 1860 WIEHLE AVE. RESTON, Va. 22090	US DEPARTMENT OF COMMERCE NATIONAL TECHNICAL INFO SERVICE SPRINGFIELD, Va. 22161 ATTN: WALTER FINCH

13. Due Back Date		
Year	**Month**	**Day**
8 1	0 7	3 1

14. Technical Contact(s) & Phone Number(s)

2nd Lt MARK F. AMELL   (703) 437-2552

RECORDING SYSTEM CHARACTERISTICS

EQUIPMENT MANUFACTURER AND MODEL	15. Processing Unit ITEL AS/5-3		17. No. of Tracks			18. Parity		19. Density (BPI)
	16. Tape Subsystem IBM 3400-5		**7**	**9**	**Other**	**Odd**	**Even**	1600
				X		X		

RECORDING SOFTWARE	20. Operating System, Release & Version MVS REL 3.8	22. Internal File Identifier
	21. Utility Program or Data Base Language IEBGENER	

23. Characters Set (Graphics)	24. Recorded Label (Internal Label)		
☐ ASCII ☐ BCD ☐ Other (Specify)	☐ Header	☐ ANSI X 3.27 Standard	☐ Other
☒ EBCDIC ☐ FIELDATA ☐ Non-Print Codes	☐ Trailer	☐ FIPS Standard	☒ None

FILE CHARACTERISTICS

NUMBER OF RECORDS	25. Physical 63	27. Record Type ☒ Fixed Length ☐ Other Than Fixed	28. Records/Block (Blocking Factor) 39	TYPE OF FILE ORGANIZATION *(Check One Box)*
	26. Logical 2457			☐ One File One Reel ☐ One File Multiple Reels ☒ Multiple Files One Reel ☐ Multiple Files Multiple Reels

RECORD LENGTH	30. Physical ☐ Bytes ☒ Chars. 3120 ☐ Words (Bits/Word)
	31. Logical ☐ Bytes ☒ Chars. 80 ☐ Words (Bits/Word)

SUPPLEMENTAL INFORMATION

32. Use/Handling Constraints *(Specify if Yes)*
Yes **No**   X

Source tape is in EBCDIC character set. Tapes can be prepared in most standard 7 or 9 track recording modes for 1/2 inch tape. Identify recording mode desired by specifying character set, track, density and parity. Call NTIS Computer Products, if you have any questions.

DTIC ELECTE
AUG 7 1981

```
//JOB CARD
//*
//STEP1     EXEC   PGM=IEBPTPCH,REGION=80K
//SYSPRINT DD SYSOUT=A
//SYSUT1   DD   DSN=R832.TSVS.USER,UNIT=TAPE9,DISP=OLD,
//    DCB=(RECFM=FBA,LRECL=80,BLKSIZE=3120),
//    VOL=SER=0C0303,LABEL=(1,NL)
//SYSCT2   DD   SYSOUT=A,DCB=BLKSIZE=133
//SYSIN DD *
   PRINT PREFORM=A
/*
```

NOTES:

1. USER/INSTALLATION GUIDES CONTAIN UPPER/LOWER CASE CHARACTERS.

2. TAPE FILE #9 CONTAINS TOTAL8 SOURCE CODE CHANGES.
   (ORIGINAL IS FOR TOTAL 6.3)
   DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)

3. REFERENCE PAGE 7 OF INSTALLATION GUIDE: ADD 'LABEL=(,NL)'
   TO TAPE DD STATEMENT.

TOTAL NUMBER OF LINES 0000031.

DATE __8/5/81__

TO: Input Branch

FROM: Computer Products Group __M. Henson__
                                 Init.

RE: ~~DOT~~/DF-81/~~005~~ $\overset{DOD}{}$ $\overset{004}{}$_____. Announce in GRA&I

Priority action required ☒ Yes   ☐ NO

Attached | Process for

☒ Form NTIS ~~234~~ 185

☒ Form 277

☒ NTIS 79 completed as required

☐ RDP

☐ Consigned Inventory Acquisition Form
   (Interagency agreement number and split)

Process for

K File   ☐ Documentatio?
                ☐ Mag Tape

H File   ☐ Documentatio:
                ☒ Mag Tape

Action

☐ Loan Document Form attached

☐ Defense sponsored. Acquire ADA number

☐ Highlight document. Blue slip attached

☐ Order Pending. Return immediately after copying
   necessary pages

☐ Supersedes _____

Remarks:

Note: FORM REQUIRED FOR EACH ITEM

       PACKAGE RELATED ITEMS AND PAPERS